BRUHAT BENGALURU MAHANAGARA PALIKE

NAME OF WORK : ***PREPARATION OF DPR FOR PACKAGE No. 6, INCKUDES 3 WORKS OF Rs. 180.00 Lakhs***

a. *IMPROVEMENTS TO OPEN SPACES IN DIFFERENT PLAY GROUND IN WARD No. 09 (VIDYARANYAPURA), VIDYARANYAPURA SUB DIVISION*

b. *IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS NEAR CHAMUNDESHWARI TEMPLE AREA, DODDABOMMASANDRA IN WARD No. 09 (VIDYARANYAPURA), VIDYARANYAPURA SUB DIVISION*

c. *ASPHALTING IN BALANCE ROADS AT BEL LAYOUT HMT LAYOU, NT LAYOUT, DEFENCE LAYOUT THINDLU AND SURROUNDING AREAS & CONSTRUCTION OF CULVERT IN WARD No. 09 (VIDYARANYAPURA) VIDYARANYAPURA SUB DIVISION*

DETAIL PROJECT REPORT

(PACKAGE 6)

Rudraprasad consultants

No.3, 7th Main,

Malleswaram Bengaluru-560003

Executive Engineer

Byatarayanapura Division

Bengaluru

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BRUHAT BANGALORE MAHANAGARA PALIKE

PACKAGE-6

NAME OF WORK : IMPROVEMENTS TO OPEN SPACES IN DIFFERENT PLAY GROUND IN WARD NO. 09 (VIDYARANYAPURA), VIDYARANYAPURA SUB DIVISION

Sl No	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
1	KSRB 2-2.2 : **Earthwork excavation for foundation of buildings,** water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the exavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. Specification No. KBS 2.1(b) / 2.3.5 Pg No 5,Item No 2.3								
	Playground at Canara Bank Layout Kodigehalli								
	Basket ball Court	Cum	1	33.65	20.24	0.25	170.27		
	Gallery	Cum	1	33.65	4.20	0.60	84.80		
	Pedastal	Cum	7	2.70	0.70	0.60	7.94		
	Playground at Canara Bank Layout, Rajiv Gandhi Nagar								
	For poles	Cum	2	0.75	0.75	1.15	1.29		
	Basic rate							189.00	
	Area weightage 8%							15.12	
	Total						**264.31**	**204.1**	**53950.21**
2	Pg.No-6,Item No-2.9 KSRB 2.2.7: Benching hard rock 5 to 7.5 cm depth. for seating of foundation, including cost of all labour complete as per specifications. specification. No. KBS 2.1(a) / 2.3.1								
	Playground at Canara Bank Layout Kodigehalli								
	Footing base								
		Cum	7	2.70	0.70	0.05	0.66		
	Basic rate							1352.00	
	Area weightage 8%							108.16	
	Total						**0.66**	**1460.2**	**965.90**
3	Pg No.12 Item No 4.3 KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 (M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2								
	Playground at Canara Bank Layout Kodigehalli								
	Basket ball Court	Cum	1	33.65	20.24	0.15	102.16		
	Footing	Cum	7	2.70	0.70	0.10	1.32		
	Playground at Canara Layout, Rajiv Gandhi Nagar								
	For poles	Cum	2	0.75	0.75	0.15	0.17		
	Basic rate							4867	
	Area weightage 8%							389.36	
	Total						**103.66**	5256.4	544854.23

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4	Pg.No-12,Item No-4.2 KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	Playground at Canara Bank Layout Kodigehalli								
	Gallery								
		Cum	1	33.65	3.60	0.15	18.17		
	Basic rate							5046.00	
	Area weightage 8%							403.68	
	Total						**18.17**	**5449.68**	**99029.08**
5	Pg No.23 Item No. 5.5 KSRB 5.2-2 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13								
	Playground at Canara Bank Layout Kodigehalli								
	Gallery								
	Step 1	Cum	1	33.65	0.90	0.45	13.63		
	Step 2	Cum	1	33.65	0.90	0.45	13.63		
	Step 3	Cum	1	33.65	0.90	0.45	13.63		
	Step 4	Cum	1	33.65	0.90	0.45	13.63		
	Basic rate							4,037.00	
	Area weightage 8%							322.96	
	Total						**54.51**	**4359.96**	**237681.56**
6	Pg.No-23,Item No-5.12 KSRB 5.4-3 : Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:6 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing complete as per specifications. KBS 5.1.13								
	Playground at Canara Bank Layout Kodigehalli								
	Gallery								
	Step 1	Cum	1	33.65	0.90	0.45	13.63		
	Step 2	Cum	1	33.65	0.90	0.90	27.26		
	Step 3	Cum	1	33.65	0.90	1.35	40.89		
	Step 4	Cum	1	33.65	0.90	1.80	54.51		
	Basic rate							5,249.00	
	Area weightage 8%							419.92	
	Total						**136.29**	**5668.92**	**772597.55**
7	Pg.No-15,Item No-4.28 KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2								
	Playground at Canara Bank Layout Kodigehalli								
	Footing base								
		Sqm	7	6.80		0.45	21.42		
	Footing pedastal								
		Sqm	7	2.50		2.40	42.00		
	Basic rate							231.00	
	Area weightage 8%							18.48	
	Total						**63.42**	**249.48**	15822.02

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8	Pg No 16,Item No 4.38 KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2								
	Playground at Canara Bank Layout Kodigehalli								
	Steps								
	Sides	Sqm	16	0.60		0.15	1.44		
	Sides	Sqm	16	0.30		0.15	0.72		
	Rises	Sqm	16	2.00		0.15	4.80		
	Basic rate							475.00	
	Area weightage 8%							38.00	
	Total						**6.96**	**513.00**	**3570.48**
9	PG no.12 Item No.4.5 KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	Playground at Canara Bank Layout Kodigehalli								
	Steps								
		Cum	8	2.00	0.60	0.15	1.44		
		Cum	8	2.00	0.30	0.15	0.72		
	Playground at Canara Layout, Rajiv Gandhi Nagar								
	For poles	Cum	2	0.75	0.75	1.00	1.13		
	Basic rate							5542.00	
	Area weightage 8%							443.36	
	Total						**3.29**	**5985.36**	**19661.91**
10	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming toIS 9103-1999 Reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached plasters,columns, piers, abutments, pillars, posts, struts, buttresses, bed blocks, anchor blocks,& plinth etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.KBS 4.1, 4.6, Pg No 13, Item no.4.10								
	Playground at Canara Bank Layout Kodigehalli								
	Footing base								
		Cum	7	2.70	0.70	0.45	5.95		
	Footing pedastal								
		Cum	7	0.80	0.45	2.40	6.05		
	Basic rate							6221.00	
	Area weightage 8%							497.68	
	Total						**12.00**	**6718.68**	**80634.24**
11	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) - Ready mixed Cement concrete for Beams, Staircase and Roof with M-25								

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	Playground at Canara Bank Layout Kodigehalli								
	Basket ball Court	Cum	1	33.65	20.24	0.10	68.11		
	Basic rate							6065.00	
	Area weightage 8%							485.2	
	Total						**68.11**	**6550.2**	**446118.40**
12	Pg No.17 Item No.4.46.2 KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required,

	Area weightage 8%							14.16	
	Total						60.57	191.2	11578.91
16	Providing and fixing **20mm thick gang saw water cut sadarhalli grey granite** in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing minimum width of 1200mm. Pg No. 109 Item NO.14.61.1								
	Playground at Canara Bank Layout Kodigehalli								
	For gallery risers including rises of gallerysteps	Sqm	4	33.65		0.45	60.57		
	Basic rate							1986.00	
	Area weightage 8%							158.88	
	Total						60.57	2144.9	129919.24
17	Pg.No-114,Item No-15.18 KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.								
	Playground at Canara Bank Layout Kodigehalli								
	Backside	Sqm	1	33.65		1.80	60.57		
	Sides	Sqm	2	0.90		1.80	3.24		
		Sqm	2	0.90		1.35	2.43		
		Sqm	2	0.90		0.90	1.62		
		Sqm	2	0.90		0.45	0.81		
	Basic rate							259.00	
	Area weightage 8%							20.72	
	Total						68.67	279.7	19208.88
18	Pg.No-118,Item No-15.53.2 KSRB 15-16.1 : Providing and finishing external walls with primer in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.								
	Playground at Canara Bank Layout Kodigehalli								
	Backside	Sqm	1	33.65		1.80	60.57		
	Sides	Sqm	2	0.90		1.80	3.24		
		Sqm	2	0.90		1.35	2.43		
		Sqm	2	0.90		0.90	1.62		
		Sqm	2	0.90		0.45	0.81		
	Basic rate							84.00	
	Area weightage 8%							6.72	
	Total						68.67	90.7	6229.91
19	Pg No-102,Item No-14.13 KSRB 14.9-1: Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing, complete as per specifications Specification No. KBS 14.4								
	Playground at Canara Bank Layout Kodigehalli								

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	Basket ball Court	Sqm	1	33.65	20.24		681.08		
	Basic rate							591.0	
	Area weightage 8%							47.28	
	Total						**681.08**	**638.3**	**434717.19**
20	Pg.No-40,Item No-7.29 Fabrication supplying and erecting M.S. tubular trusses of all spans with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge and polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, letc., complete as per specification								
	Playground at Canara Bank Layout Kodigehalli								
	Truss work for Gallery covering								
		kg	(QUANTITY OF STEEL ASSUMED @ 4Kg/ SFT FOR STEEL COLUMNS AND TRUSS FOR GALLERY COVERING)				5792.49		
	Basic rate							110.00	
	Area weightage 8%							8.8	
	Total						**5792.49**	**118.8**	**688148.37**
21	Pg No 300,Item No 38.30. Providing and installing of Prepainted Galvolume iron trapezoidal profiled sheet of approved make 1060mm width(1000mm cover width)28-30mm crest hight with crest distance of 200mmc/c with 2ribs at the center for stiffening. the total coated thickness(TCT)of sheet will be .47mm +/-.02mm tolerance Zinc alu-alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade,5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self screws of 25mm length,to be fixed over the existing purlins,rafters,channels and trusses.epainted Galvalum sheet colour sheet of .45mm thk (TRAPEZOIDAL PROFILED SHEET)								
	Playground at Canara Bank Layout Kodigehalli								
		Sqm	1	33.65	4.00		134.60		
	Basic rate							770.00	
	Area weightage 8%							61.6	
	Total	sqm					**134.60**	**831.6**	**111933.36**
22	Pg No. 302 Item 38.31 Providing and installing approved make pre painted Galvalume iron accessories,like,plain,ridges,plain gutter,plain flashing,corner trim,etc. The total coated thickness(TCT) of the sheet shall be 0.47 mm +/-0.02 tolerance mm Zinc -Alu alloy coating AZ 150 gsm as per ASTM 1397/755-550 mpa steel grade, 5-7 microns epoxy primer on both sides of sheet and polyester top coat 20-22 micrns using self drilling/self tapping scews of length 25mm(width upto 500-600 mm only),to be fixed over existing purlins,rafters,chanels ,and trusses.								
	For gutter								
		Sqm	7	4.00	0.30		8.40		
		Sqm	1	33.65	0.30		10.10		
	Basic rate							740.00	
	Area weightage 8%							59.2	
	Total						**18.50**	**799.2**	**14781.20**
23	Pg.No-121,Item No-15.73 KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications.								

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	Playground at Canara Bank Layout Kodigehalli								
	For Truss								
		Sqm	1	33.65	4.00		134.60		
	Basic rate							29.00	
	Area weightage 8%							2.32	
	Total						**134.60**	**31.3**	**4215.67**
24	Pg.No-121,Item No-15.74 KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.								
	Playground at Canara Bank Layout Kodigehalli								
	For Truss	Sqm	1	33.65	4.00		134.60		
	Chain Link Fencing	Sqm	1	316.50		1.80	569.70		
	Basic rate							82.00	
	Area weightage 8%							6.56	
	Total						**704.30**	**88.6**	**62372.81**
25	Providing and laying of granite slabs of 7.5cms thickness to gallery steps and erecting of stuss and purlins using crane.(Hire charges PgeNo.XXXXIX, Sl No.87, Code No.1312)								
	Playground at Canara Bank Layout Kodigehalli								
	For 120hrs (15Days)	Hrs	120				120.00		
	Basic rate							647.00	
	Total						**120.00**	**647.0**	**77640.00**
26	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge. Pg No 133,Item No17.4								
	Playground at Canara Bank Layout Kodigehalli								
	EARTH	Cum					264.31		
	Loading and unloading item no.17.1 KSRRB M 100-1	Cum						68.00	
	Basic rate for haulage of materials as per item No. 17.4 KSRRB : M 100 - 4.1	t.km	For surface roads exluding loading & unloading Basic rate					2.50	
	Average Weight of earth (1.28 Tonne/cum.)	For15Kms =15x1.28x2.5						48.00	
	Basic rate							118.50	
	Area weightage 8%							9.48	
	Total						**264.31**	**127.98**	33825.92

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27	Providing fixing basket ball pole (LS)		Nos	2			2.00	
								50000.00
	Basic rate						2.00	50000.0
	Total							SUB TOTAL =
								PREPARATION OF DPR AND PROJECT MANAGEMENT CONSULTANCY CHARGES(2% OF ESTIMATED COST) =
								Tender Premium 10% of estimated Cost
								MISCELLANEOUS AND ROUNDING OFF =
								TOTAL AMOUNT=
								RUPEES FIFTY LAKHS ONLY

100000.00
4393287
100000
500000
6713
5000000

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017,KPWD ELE SR 2014-15

AE-9

ADMINISTRATIVE APPROVAL

Accorded For Rs. Fifty lakhs only

Head of A/c. P-3111

Div. Ref. No. 119/17-18 Date 19/12/17

AE

EE(BTP) 19/12

Technical Sanction

Accorded For Rs.50.00 lacs

Head of A/C P-3111

CER NO :79/4871 Dt:22/12

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BRUHAT BANGALORE MAHANAGARA PALIKE

PACKAGE-6

NAME OF WORK : IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS NEAR CHAMUNDESHWARI TEMPLE AREA, DODDABOMMASANDRA IN WARD NO. 09 (VIDYARANYAPURA), VIDYARANYAPURA SUB DIVISION.

Sl.No.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications.Specification. No. KBS 2.1(a)/2.3.1(P.No.5-I.No.2.1)								
	New Drain								
	MUNINARAYANA PPA LAYOUT								
	5th Cross Road ward no. 9	Cum	1	49.50	0.60	0.60	17.82		
	8th cross road	Cum	2	50.00	0.60	0.60	36.00		
	Desilting drain								
	MUNINARAYANA PPA LAYOUT								
	(infront of manjunath cycle works)	Cum	2	61.38	0.60	0.40	29.46		
	sri krishna temple Main Road	Cum	2	154.00	0.80	0.40	98.56		
	Renukamma temple Road	Cum	2	210.00	0.75	0.40	126.00		
		Cum	1	130.00	0.80	0.40	41.60		
	5th Cross Road ward no. 9	Cum	1	49.50	0.60	0.40	11.88		
	8th Cross Road	Cum	1	50.00	0.50	0.40	10.00		
	Basic rate							157.00	
	Area weightage 6%							9.42	
	Total						**371.32**	**166.42**	**61795.47**
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 (P.No.12/I.No. 4.3)								
	New Drain								
	MUNINARAYANA PPA LAYOUT								
	5th Cross Road ward no. 9	Cum	1	49.50	0.60	0.15	4.46		
	8th cross road	Cum	2	50.00	0.60	0.15	9.00		
	Basic rate							4867.00	
	Area weightage 6%							292.02	
	Total						**13.46**	**5159.02**	**69414.61**
3	Removing B.S.slab of Drain and stacking.(P.No.25-I.No.5.32)								
	Closed Drain								
	Cover Slab								
	MUNINARAYANA PPA LAYOUT								
	(infront of manjunath cycle works)	Sqm	2	61.38	0.60		73.66		
	sri krishna temple Main Road	Sqm	2	154.00	0.80		246.40		
	Renukamma temple	Sqm	2	210.00	0.75		315.00		
	5th Cross Road ward no. 9	Sqm	1	49.50	0.60		29.70		

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	Open Drain (Sides & Bottom)								
	Renukamma temple Road	Sqm	1	130.00	1.80		234.00		
	Sub Total						**898.76**		
	Consider 5% Qnty for Removing						**44.94**		
	Basic rate							62.00	
	Area weightage 6%							3.72	
	Total						**44.94**	65.72	2953.31
4	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25-I.No.5.33)								
	Closed Drain								
	Cover Slab								
	MUNINARAYANA PPA LAYOUT								
	(infront of manjunath cycle works)	Sqm	2	61.38	0.60		73.66		
	sri krishna temple Main Road	Sqm	2	154.00	0.80		246.40		
	Renukamma temple	Sqm	2	210.00	0.75		315.00		
	5th Cross Road ward no. 9	Sqm	1	49.50	0.60		29.70		
	Sub Total						**664.76**		
	Consider 30% Qnty for Removing & Refixing						**199.43**		
	Basic rate							76.00	
	Area weightage 6%							4.56	
	Total						**199.43**	80.56	16065.82
5	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.1)								
	Cover Slab								
	MUNINARAYANA PPA LAYOUT								
	New Drain								
	5th Cross Road ward no. 9	Sqm	1	49.50	0.60		29.70		
	8th Cross Road	Sqm	2	50.00	0.60		60.00		
	Basic rate							628.00	
	Area weightage 6%							37.68	
	Total						**89.70**	665.68	59711.50
6	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.2)								
	New Drain								
	MUNINARAYANA PPA LAYOUT								
	5th Cross Road ward no. 9								
	At Bottom	Sqm	1	49.50	0.60		29.70		
	At Sides	Sqm	2	49.50	0.60		59.40		
	8th cross road								
	At Bottom	Sqm	2	49.50	0.60		59.40		
	At Sides	Sqm	4	49.50	0.60		118.80		
	Sub Total						**267.30**		
	Open Drain (Sides & Bottom)	Width=Perimeter of Drain in U Shape							
	Renukamma temple Road	Sqm	1	130.00	1.80		234.00		

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	Consider 8% Only for Refixing								
	Basic rate								
	Area weightage 6%								
	Total								
7	KSRB 300.1 : Earthwork excavation by manual means in ordinary soil involving an average horizontal lead upto 2meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly formed, the disposal soil is to be levelled neatly after breaking of clods complete as per specifications (P.No.142,I.No.12.1)								
	Road cutting portions								
	MUNINARAYANA PPA LAYOUT								
	(infront of manjunath cycle works)	Cum	4	3.08	1.30	0.23	3.68		
	Renukamma temple Road	Cum	2	5.61	0.80	0.23	2.06		
		Cum	1	5.28	0.70	0.23	0.85		
		Cum	1	1.10	3.00	0.23	0.76		
	Basic rate								
	Area weightage 6%								
	Total								
8	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms (Refer Table, Page No.139)								
	Considered same Qty vide I.No.1+ I.No.7+ I.No.18	Cum					434.50		
	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs.2.00 Tonne/Km.) For 15 Kms = (2.00 x 1.28 x 15)/-		38.40						
	KSRRB M100-1 Add loading & unloading (P.No.130,I.No.17.1)		68.00						
	Total rate per Cum		106.40						
	Basic rate							106.40	
	Area weightage 6%							6.384	
	Total						434.50	112.78	49004.40
9	KSRRB M400-17.Providing,laying, spreading and compacting crushed stone aggregates of granite/trap/ basalt to wet mix macadam specification including pre mixing the Material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density, complete as per specifications MORTH specification No.406(Page No.158,I.No.20.18)								
	Road cutting portions								
	MUNINARAYANA PPA LAYOUT								
	(infront of manjunath cycle works)	Cum	4	3.08	1.30	0.23	3.68		
	Renukamma temple Road	Cum	2	5.61	0.80	0.23	2.06		
		Cum	1	5.28	0.70	0.23	0.85		
		Cum	1	1.10	3.00	0.23	0.76		
	Basic rate							1668.00	
	Area weightage 6%							100.08	
	Total						7.36	1768.08	13008.58

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10	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.161,I.No.21.1)								
	Road cutting portions								
	MUNINARAYANA PPA LAYOUT								
	(infront of manjunath cycle works)	Sqm	4	3.08	1.30		16.02		
	Renukamma temple Road	Sqm	2	5.61	0.80		8.98		
		Sqm	1	5.28	0.70		3.70		
		Sqm	1	1.10	3.00		3.30		
	Basic rate							13.00	
	Area weightage 6%							0.78	
	Total						31.99	13.78	440.79
11	KSRRB 500-9.Providing and applying tack coat using 80/100 grade bitumen (VG 10) on granular base such as WBM surface hot bitumen primed at 4kg per 10 sqm heating bitumen in boiler with spray set (Excluding cleaning of Road surface) inlcuding cost of all materials, labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.9)								
	Considered same Above Qty	Sqm					31.99		
	Basic rate							18.00	
	Area weightage 6%							1.08	
	Total						31.99	19.08	610.33
12	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse as per design mix formula for base / binding courseincluding loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant,transporting the mixed material in tipper to paver and laying mixed materials, with paver finisher to the required level and grade,rolling by power roller to achieve the desired density,but excluding cost of primer/tack coat including lead,lift and cost of all materials,labour,HOM of machineries complete as per specifications MORTH chapter 5 Using 100/120 TPH capacity H.M.P with sensor paver Gr-II (50 mm to 75mm) with 3.4% VG - 30 Bitumen(P.No.162-I.No.21.11.2)								
	MUNINARAYANA PPA LAYOUT								
	(infront of manjunath cycle works)	Cum	4	3.08	1.30	0.05	0.80		
	Renukamma temple Road	Cum	2	5.61	0.80	0.05	0.45		
		Cum	1	5.28	0.70	0.05	0.18		
		Cum	1	1.10	3.00	0.05	0.17		
	Sub Total						**1.60**		
	Consider 5% qty for Profile correction and Dipression filling						**0.08**		
	Basic rate							5409.00	
	Area weightage 6%							324.54	
	Total						1.68	5733.54	9628.74
13	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.2).								
	For Road surface								
	MUNINARAYANA PPA LAYOUT								
	4th Cross Road ward no. 9	Sqm	1	62.70	4.50		282.15		
	(infront of manjunath cycle works)	Sqm	1	61.38	2.80		171.86		
	sri krishna temple Main Road	Sqm	1	154.00	3.80		585.20		

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	Cum		154.00	3.80	0.04	2.34		
	Cum		210.00	5.10	0.04	4.28		
	Cum		27.50	5.50	0.04	0.57		
	Cum		130.00	5.20	0.04	2.70		
	Cum		62.26	5.30	0.04	1.32		
	Cum		50.00	2.80	0.04	0.56		
							8502.00	
							510.12	
						149.56	9012.12	1347892.75

	Providing Paint to Bituminous concrete @ 5%							
	Kg		0.08	149.56	117.00	1399.92		
							27.00	
							1.62	
						1399.92	28.62	40065.80

17 Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.

	Sqm	1	62.70	0.10		6.27		
	Sqm	1	61.38	0.10		6.14		
	Sqm	1	154.00	0.10		15.40		
	Sqm	1	210.00	0.10		21.00		
	Sqm	1	27.50	0.10		2.75		
	Sqm	1	130.00	0.10		13.00		
	Sqm	1	62.26	0.10		6.23		
	Sqm	1	50.00	0.10		5.00		
							512.00	
							30.72	
						75.78	542.72	41129.49

18 Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled material including serviceable and unserviceable materials seperately complete as per specifications, MORTH Specification No. 2016(Cl.116-116a,18.4.7)

	Cum	1	49.50	2.10	0.15	15.59		
	Cum	1	12.10	6.40	0.15	11.62		
	Cum	1	68.30	2.60	0.15	26.64		
	Cum	1	10.12	1.30	0.15	1.97		
							781.00	
							46.86	
						55.82	827.86	46210.23

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19	KSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications.MORTH Specification No. 601, Item No. 22.1, Pg No. 176								
	MUNINARAYANA PPA LAYOUT								
	5th Cross Road ward no. 9	Cum	1	49.50	2.10	0.15	15.59		
	(nanjappa house Road)	Cum	1	12.10	6.40	0.15	11.62		
		Cum	1	68.30	2.60	0.15	26.64		
		Cum	1	10.12	1.30	0.15	1.97		
	Basic rate							3761.00	
	Area weightage 6%							225.66	
	Total						55.82	3986.66	222530.98
20	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) Pg No.177 Item No.22.6.1								
	MUNINARAYANA PPA LAYOUT								
	5th Cross Road ward no. 9	Cum	1	49.50	2.10	0.15	15.59		
	(nanjappa house Road)	Cum	1	12.10	6.40	0.15	11.62		
		Cum	1	68.30	2.60	0.15	26.64		
		Cum	1	10.12	1.30	0.15	1.97		
	Sub Total						**55.82**		
	Consider 5% qty for camber						**2.79**		
	Basic rate							5866.00	
	Area weightage 6%							351.96	
	Total						**58.61**	**6217.96**	**364433.67**
21	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Conrete Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms and 2Ltr of Primer per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.192- I.No.24.57)								
	MUNINARAYANA PPA LAYOUT								
	5th Cross Road ward no. 9	Sqm	1	49.50	0.10		4.95		
	(nanjappa house Road)	Sqm	1	12.10	0.10		1.21		
		Sqm	1	68.30	0.10		6.83		
		Sqm	1	10.12	0.10		1.01		
	Basic rate							647.00	
	Area weightage 6%							38.82	
	Total						14.00	685.82	9602.85
								Sub Total	**2628757.71**

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	Preparation of DPR And Project management Consultancy Charges(2% of estimated cost)	60000
	Tender Premium 10% of estimated Cost	300000
	Miscellenious and rounding	11242
	TOTAL AMOUNT	3060000
	RUPEES THIRTY LAKHS ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017

AE-9

ADMINISTRATIVE APPROVAL

Accorded For Rs. Thirty lakhs only

Head of A/C P-3111

Div. Ref. No. 120/17-18 Date 19/12/17

AE

EE(BTP) 19/12

Technical Sanction

Accorded For Rs. 30 lakhs only

Head of A/C P-3111

CER NO ...Dt. 23.12.17

TA

CE (YNK)

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BRUHAT BANGALORE MAHANAGARA PALIKE

PACKAGE-6

NAME OF WORK : ASPHALTING TO BALANCE ROADS AT BEL LAYOUT, HMT LAYOUT, NTI LAYOUT, DEFENCE LAYOUT, THINDLU AND SURROUNDING AREAS IN WARD NO. 09 (VIDYARANYAPURA), VIDYARANYAPURA SUB DIVISION.

SLNo.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications.Specification. No. KBS 2.1(a)/2.3.1(P.No.5-								
	Desilting drain								
	HMT LAYOUT								
	7th Block 7th Cross Road	Cum	2	200.00	0.60	0.40	96.00		
	7th Block 10th Cross Road	Cum	2	92.40	0.70	0.40	51.74		
	3rd main 9th Cross Road	Cum	2	201.00	0.65	0.40	104.52		
	7th block 8th Cross Road	Cum	2	114.00	0.60	0.40	54.72		
	4th Block 13th Cross Road	Cum	2	160.94	0.70	0.40	90.13		
	5th Block 12th Main 20th Cross Road	Cum	2	380.00	0.80	0.40	243.20		
	5th Block 18th Cross Road	Cum	2	158.00	0.70	0.40	88.48		
	5th Block 17th Cross Road	Cum	2	158.00	0.60	0.40	75.84		
	5th Block 19th Cross Road	Cum	2	243.00	0.40	0.40	77.76		
	1st Block 11th Main Road	Cum	2	235.50	0.70	0.40	131.88		
	DEFENCE LAYOUT								
	5th Main 5th Road	Cum	2	435	0.80	0.40	278.40		
	2nd Road	Cum	2	329	0.80	0.40	210.24		
	Basic rate							157.00	
	Area weightage 6%							9.42	
	Total						1502.91	166.42	250114.44
2	Removing B.S.slab of Drain and stacking.(P.No.25-I.No.5.32)								
	Open Drain (Sides & Bottom)	Width=Perimeter of Drain in U Shape							
	Drain slab								
	HMT LAYOUT								
	7th Block 7th Cross Road	Sqm	2	200.00	1.80		720.00		
	7th Block 10th Cross Road	Sqm	2	92.40	1.80		332.64		
	3rd main 9th Cross Road	Cum	2	201.00	1.80		723.60		
	7th block 8th Cross Road	Cum	2	114.00	1.80		410.40		
	4th Block 13th Cross Road	Sqm	2	160.94	1.80		579.39		
	5th Block 12th Main 20th Cross Road	Sqm	2	380.00	1.80		1368.00		
	5th Block 18th Cross Road	Sqm	2	158.00	1.80		568.80		
	5th Block 17th Cross Road	Sqm	2	158.00	1.80		568.80		

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	5th Block 19th Cross Road	Sqm	2	243.00	1.80		874.80		
	1st Block 11th Main Road	Sqm	2	235.50	1.80		847.80		
	Closed drain								
	Cover Slab								
	DEFENCE LAYOUT								
	5th Main 5th Road	Sqm	2	435	0.80		696.00		
	Sub Total						**7690.23**		
	Consider 5% Qnty for Removing						**384.51**		
	Basic rate							62.00	
	Area weightage 6%							3.72	
	Total						**384.51**	**65.72**	25270.09
3	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25-I.No.5.33)								
	Closed drain								
	Cover Slab								
	DEFENCE LAYOUT								
	5th Main 5th Road	Sqm	2	435	0.80		696.00		
	Sub Total						**696.00**		
	Consider 30% Qnty for Removing & Refixing						**208.80**		
	Basic rate							76.00	
	Area weightage 6%							4.56	
	Total						**208.80**	**80.56**	16820.93
4	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.1)								
	Closed drain								
	Cover Slab								
	DEFENCE LAYOUT								
	5th Main 5th Road	Sqm	2	435	0.80		696.00		
	Sub Total						**696.00**		
	Consider 5% Qnty for Refixing						**34.80**		
	Drain slab								
	Basic rate							628.00	
	Area weightage 6%							37.68	
	Total						**34.80**	**665.68**	23165.66
5	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.2)								
	Open Drain (Sides & Bottom)								
	Drain slab								
	HMT LAYOUT								
	7th Block 7th Cross Road	Sqm	2	200.00	1.80		720.00		
	7th Block 10th Cross Road	Sqm	2	92.40	1.80		332.64		
	3rd main 9th Cross Road	Cum	2	201.00	1.80		723.60		
	7th block 8th Cross Road	Cum	2	114.00	1.80		410.40		
	4th Block 13th Cross Road	Sqm	2	160.94	1.80		579.39		
	5th Block 12th Main 20th Cross Road	Sqm	2	380.00	1.80		1368.00		

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	5th Block 18th Cross Road	Sqm	2	158.00	1.80		568.80		
	5th Block 17th Cross Road	Sqm	2	158.00	1.80		568.80		
	5th Block 19th Cross Road	Sqm	2	243.00	1.80		874.80		
	1st Block 11th Main Road	Sqm	2	235.50	1.80		847.80		
	DEFENCE LAYOUT								
	2nd Road	Sqm	2	329	1.80		1182.60		
	Sub Total						**8176.83**		
	Consider 5% Qnty for Removing						**408.84**		
	Basic rate							779.00	
	Area weightage 6%							46.74	
	Total						408.84	825.74	337596.68
6	KSRB 300-1 : Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.(P.No.142,I.No.19.1)								
	Road cutting portions								
	HMT LAYOUT								
	7th Block 7th Cross Road	Cum	1	4.95	0.45	0.23	0.51		
	7th Block 10th Cross Road	Cum	1	4.95	0.50	0.23	0.57		
	7th block 8th Cross Road	Cum	1	4.60	0.30	0.23	0.32		
	4th Block 13th Cross Road	Cum	1	6.82	0.70	0.23	1.10		
	5th Block 12th Main 20th Cross Road	Cum	1	8.36	1.00	0.23	1.92		
	DEFENCE LAYOUT								
	5th Main 5th Road	Cum	1	346.50	0.90	0.23	71.73		
	2nd Road	Cum	1	328.50	1.00	0.23	75.56		
	Basic rate							82.00	
	Area weightage 6%							4.92	
	Total						151.70	86.92	13185.79
7	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.139)								
	Considered same Qty vide I.No.1+I.No.6	Cum					1654.61		
	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs.2.00 Tonne/Km.) For 15 Kms = (2.00 x 1.28 x 15)/-		38.40						
	KSRRB M100-1 Add loading & unloading (P.No.130,I.No.17.1)		68.00						
	Total rate per Cum		106.40					106.40	
	Basic rate							6.384	
	Area weightage 6%						1654.61	112.78	186613.68
	Total								

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8	KSRRB M400-17.Providing,laying, spreading and compacting crushed stone aggregates of granite/trap/ basalt to wet mix macadam specification including pre mixing the Material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density. complete as per specifications.MORTH specification No.406(Page No.158,I.No.20.18)								
	Road cutting portions								
	HMT LAYOUT								
	7th Block 7th Cross Road	Cum	1	4.95	0.45	0.23	0.51		
	7th Block 10th Cross Road	Cum	1	4.95	0.50	0.23	0.57		
	7th block 8th Cross Road	Cum	1	4.60	0.30	0.23	0.32		
	4th Block 13th Cross Road	Cum	1	6.82	0.70	0.23	1.10		
	5th Block 12th Main 20th Cross Road	Cum	1	8.36	1.00	0.23	1.92		
	DEFENCE LAYOUT								
	5th Main 5th Road	Cum	1	346.50	0.90	0.23	71.73		
	2nd Road	Cum	1	328.50	1.00	0.23	75.56		
	Basic rate							1668.00	
	Area weightage 6%							100.08	
	Total						151.70	1768.08	268218.26
9	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.161,I.No.21.1)								
	Road cutting portions								
	HMT LAYOUT								
	7th Block 7th Cross Road	Sqm	1	4.95	0.45		2.23		
	7th Block 10th Cross Road	Sqm	1	4.95	0.50		2.48		
	7th block 8th Cross Road	Sqm	1	4.60	0.30		1.38		
	4th Block 13th Cross Road	Sqm	1	6.82	0.70		4.77		
	5th Block 12th Main 20th Cross Road	Sqm	1	8.36	1.00		8.36		
	DEFENCE LAYOUT								
	5th Main 5th Road	Sqm	1	346.50	0.90		311.85		
	2nd Road	Sqm	1	328.50	1.00		328.50		
	Basic rate							13.00	
	Area weightage 6%							0.78	
	Total						659.57	13.78	9088.83
10	KSRRB 500-9.Providing and applying tack coat using 80/100 grade bitumen (VG 10) on granular base such as WBM surface hot bitumen primed at 4kg per 10 sqm heating bitumen in boiler with spray set (Excluding cleaning of Road surface) inlcuding cost of all materials, labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.9)								
	Considered same Above Qty	Sqm					659.57		
	Basic rate							18.00	
	Area weightage 6%							1.08	
	Total						659.57	19.08	12584.53

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11	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed course as per design mix formula for base / binding courseincluding loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant,transporting the mixed material in tipper to paver and laying mixed materials, with paver finisher to the required level and grade,rolling by power roller to achieve the desired density,but excluding cost of primer/tack cost including lead,lift and cost of all materials,labour,HOM of machineries complete as per specifications MORTH chapter 5 Using 100/120 TPH capacity H.M.P with sensor paver Gr-II (50 mm to 75mm) with 3.4% VG - 30 Bitumen(P.No.162-I.No.21.11.2)								
	HMT LAYOUT								
	7th Block 7th Cross Road	Cum	1	4.95	0.45	0.05	0.11		
	7th Block 10th Cross Road	Cum	1	4.95	0.50	0.05	0.12		
	7th block 8th Cross Road	Cum	1	4.60	0.30	0.05	0.07		
	4th Block 13th Cross Road	Cum	1	6.82	0.70	0.05	0.24		
	5th Block 12th Main 20th Cross Road	Cum	1	8.36	1.00	0.05	0.42		
	DEFENCE LAYOUT								
	5th Main 5th Road	Cum	1	346.50	0.90	0.05	15.59		
	2nd Road	Cum	1	328.50	1.00	0.05	16.43		
	Sub Total						**32.98**		
	Consider 5% qty for Profile correction and Dipression filling						**1.65**		
	Basic rate							5409.00	
	Area weightage 6%							324.54	
	Total						34.63	5733.54	198536.67
12	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.2).								
	For Road surface								
	HMT LAYOUT								
	7th Block 7th Cross Road	Sqm	1	200.00	5.50		1100.00		
	7th Block 10th Cross Road	Sqm	1	92.40	5.40		498.96		
	3rd main 9th Cross Road	Sqm	1	201.00	5.40		1085.40		
	7th block 8th Cross Road	Sqm	1	114.00	5.75		655.50		
	4th Block 13th Cross Road	Sqm	1	160.94	7.10		1142.68		
	5th Block 12th Main 20th Cross Road	Sqm	1	380.00	8.10		3078.00		
	5th Block 18th Cross Road	Sqm	1	158.00	4.70		742.60		
	5th Block 17th Cross Road	Sqm	1	158.00	4.70		742.60		
	5th Block 19th Cross Road	Sqm	1	243.00	5.20		1263.60		
	1st Block 11th Main Road	Sqm	1	235.50	4.80		1130.40		
	DEFENCE LAYOUT								
	5th Main 5th Road	Sqm	1	435.00	7.50		3262.50		
	2nd Road	Sqm	1	328.50	8.00		2628.00		
	Basic rate							3.00	
	Area weightage 6%							0.18	
	Total						17330.24	3.18	55110.17

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13	KSRRB M500-10.Providing and applying tack coat using 80/100 grade bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.20kg per sqm on the existing prepared bituminous surface cleaned with mechanical broom. complete as per specification. MORTH Specifiacation clause No. 503.using Bitumen 80/100 (VG-10) on Primed surface.(P.No.162,I.No. 21.10.2) .								
	For Road surface								
	HMT LAYOUT								
	7th Block 7th Cross Road	Sqm	1	200.00	5.50		1100.00		
	7th Block 10th Cross Road	Sqm	1	92.40	5.40		498.96		
	3rd main 9th Cross Road	Sqm	1	201.00	5.40		1085.40		
	7th block 8th Cross Road	Sqm	1	114.00	5.75		655.50		
	4th Block 13th Cross Road	Sqm	1	160.94	7.10		1142.68		
	5th Block 12th Main 20th Cross Road	Sqm	1	380.00	8.10		3078.00		
	5th Block 18th Cross Road	Sqm	1	158.00	4.70		742.60		
	5th Block 17th Cross Road	Sqm	1	158.00	4.70		742.60		
	5th Block 19th Cross Road	Sqm	1	243.00	5.20		1263.60		
	1st Block 11th Main Road	Sqm	1	235.50	4.80		1130.40		
	DEFENCE LAYOUT								
	5th Main 5th Road	Sqm	1	435.00	7.50		3262.50		
	2nd Road	Sqm	1	328.50	8.00		2628.00		
	Basic rate							9.00	
	Area weightage 6%							0.54	
	Total						**17330.24**	**9.54**	**165330.50**
14	KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading,premixed with bituminous binder and filler,transporting the hot mix to work site,laying with a paver finisher to the required grade, level and alignment,rolling with smooth wheeled,vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No.500.9 complete in all respects complete as per specifications. using 40/60 TPH capacity H.M.P with mechanical Paver Gr-II(30mm to 45mm) with 5.4% CRMB 55 (P.No.165- I.No.21.23.6)								
	HMT LAYOUT								
	7th Block 7th Cross Road	Cum	1	200.00	5.50	0.04	44.00		
	7th Block 10th Cross Road	Cum	1	92.40	5.40	0.04	19.96		
	3rd main 9th Cross Road	Cum	1	201.00	5.75	0.04	46.23		
	7th block 8th Cross Road	Cum	1	114.00	5.20	0.04	23.71		
	4th Block 13th Cross Road	Cum	1	160.94	7.10	0.04	45.71		
	5th Block 12th Main 20th Cross Road	Cum	1	380.00	8.10	0.04	123.12		
	5th Block 18th Cross Road	Cum	1	158.00	4.70	0.04	29.70		
	5th Block 17th Cross Road	Cum	1	158.00	4.70	0.04	29.70		
	5th Block 19th Cross Road	Cum	1	243.00	5.20	0.04	50.54		
	1st Block 11th Main Road	Cum	1	235.50	4.80	0.04	45.22		
	DEFENCE LAYOUT								
	5th Main 5th Road	Cum	1	435.00	7.50	0.04	130.50		

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2nd Road	Cum	1	328.50	8.00	0.04	105.12		
Profile correction & Pot Hole Filling	**No.*(1/2)*Length*(20%*Width)*Depth**							
HMT LAYOUT								
7th Block 7th Cross Road	Cum	1	200.00	5.50	0.04	4.40		
7th Block 10th Cross Road	Cum	1	92.40	5.40	0.04	2.00		
3rd main 9th Cross Road	Cum	1	201.00	5.75	0.04	4.62		
7th block 8th Cross Road	Cum	1	114.00	5.20	0.04	2.37		
4th Block 13th Cross Road	Cum	1	160.94	7.10	0.04	4.57		
5th Block 12th Main 20th Cross Road	Cum	1	380.00	8.10	0.04	12.31		
5th Block 18th Cross Road	Cum	1	158.00	4.70	0.04	2.97		
5th Block 17th Cross Road	Cum	1	158.00	4.70	0.04	2.97		
5th Block 19th Cross Road	Cum	1	243.00	5.20	0.04	5.05		
1st Block 11th Main Road	Cum	1	235.50	4.80	0.04	4.52		
DEFENCE LAYOUT								
5th Main 5th Road	Cum	1	435.00	7.50	0.04	13.05		
2nd Road	Cum	1	328.50	8.00	0.04	10.51		
Basic rate							8502.00	
Area weightage 6%							510.12	

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	Total						762.87	9012.12	6875050.83
15	Providing Plastic to Bituminous concrete @ 8%								
	8% OF BC	Kg		0.08	762.87	117.00	7140.44		
	Basic rate							27.00	
	Area weightage 6%							1.62	
	Total						7140.44	28.62	204359.31
16	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.185- I.No.24.15)								
	HMT LAYOUT								
	7th Block 7th Cross Road	Sqm	1	200.00	0.10		20.00		
	7th Block 10th Cross Road	Sqm	1	92.40	0.10		9.24		
	3rd main 9th Cross Road	Sqm	1	201.00	0.10		20.10		
	7th block 8th Cross Road	Sqm	1	114.00	0.10		11.40		
	4th Block 13th Cross Road	Sqm	1	160.94	0.10		16.09		
	5th Block 12th Main 20th Cross Road	Sqm	1	380.00	0.10		38.00		
	5th Block 18th Cross Road	Sqm	1	158.00	0.10		15.80		
	5th Block 17th Cross Road	Sqm	1	158.00	0.10		15.80		
	5th Block 19th Cross Road	Sqm	1	243.00	0.10		24.30		
	1st Block 11th Main Road	Sqm	1	235.50	0.10		23.55		
	DEFENCE LAYOUT								
	5th Main 5th Road	Sqm	1	435.00	0.10		43.50		
	2nd Road	Sqm	1	328.50	0.10		32.85		
	Basic rate							512.00	
	Area weightage 6%							30.72	
	Total						270.63	542.72	146878.54
								Sub Total	**8787924.89**
	Preparation of DPR And Project management Consultancy Charges(2% of estimated cost)								200000
	Tender Premium 10% of estimated Cost								1000000
	Miscellenious and rounding								12075
	TOTAL AMOUNT								**10000000**
	RUPEES ONE CRORE ONLY								

ADMINISTRATIVE APPROVAL
Accorded For Rs. One crore only
Head of A/C P-3111
Div. Ref. No. 121 18 Date 19/12/17
AE
EE(BTP) 19/12

Technical Sanction
Accorded For Rs.10,00,000/- (Rupees One Crore Only)
Head of A/C P-3111
CER NO 3.21.18.17.18 Dt: 22.12.17

TA CE (YNK)

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017

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